Transforming Patient Care Through Telehealth (Presentation)

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Transforming Patient Care through Telehealth

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Transforming Patient Care through Telehealth

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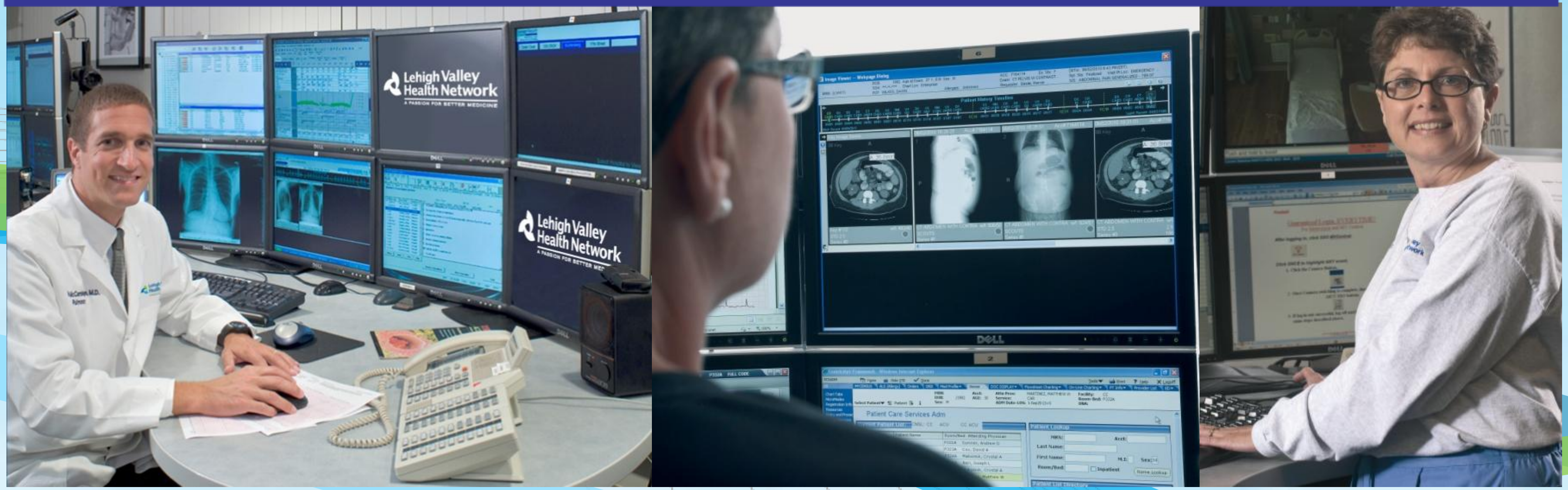

LVHN Telehealth Services – 2002-2013

2002
- TeleHomeCare

2003

2004
- Advanced Intensive Care Unit

2005
- Maternal Fetal Medicine (MFM) Ultrasound Interpretations

2006

2007

2008

- LVHN TeleBurn[SM]
- MFM Genetic Counseling
- TeleInterpreter Services

2009
- Psychiatry Emergency/ Evaluation Services - PES

2010
- School-based Telehealth

2011
- TeleInfectious Diseases-TeleID
- TeleParkinson's

2012
- TeleStroke
- TeleNeurosurgery
- LVHN BabyCam

2013
- TeleWound
- TeleTrauma

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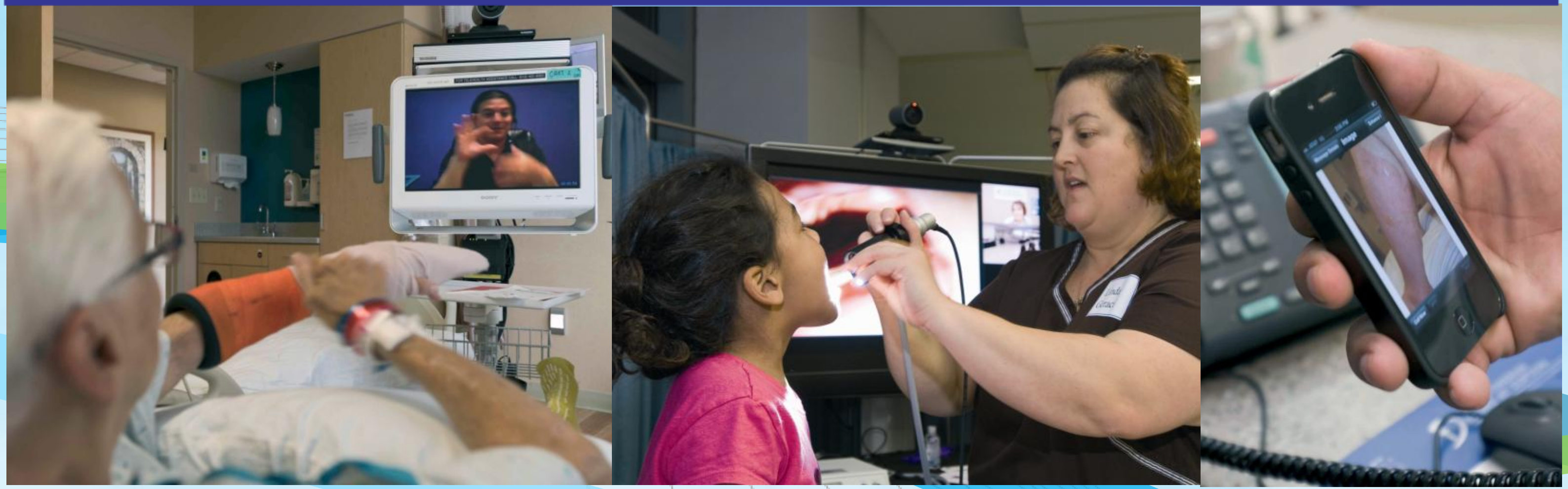

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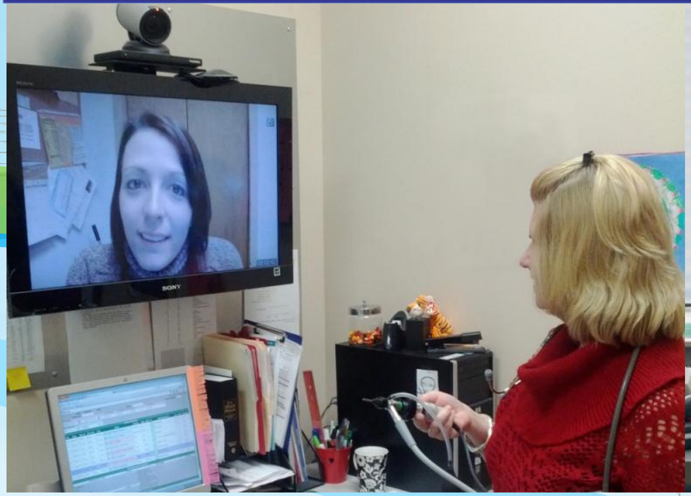

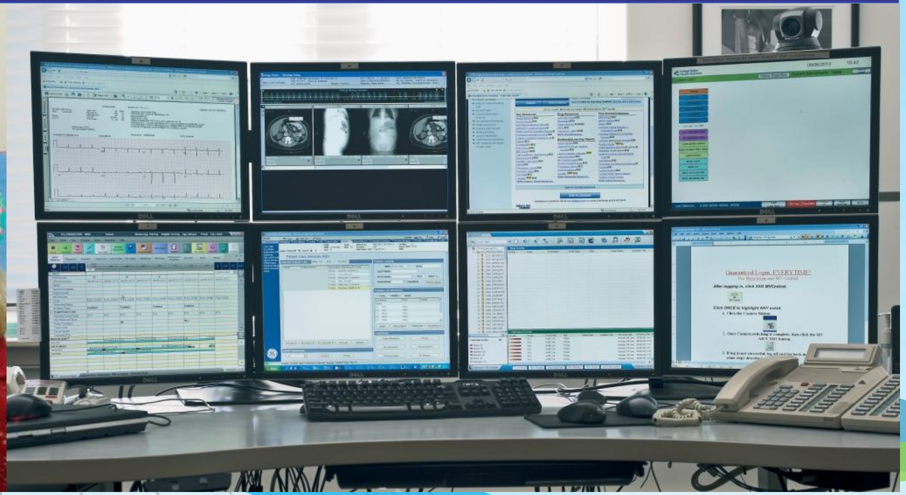

Cautious Believer

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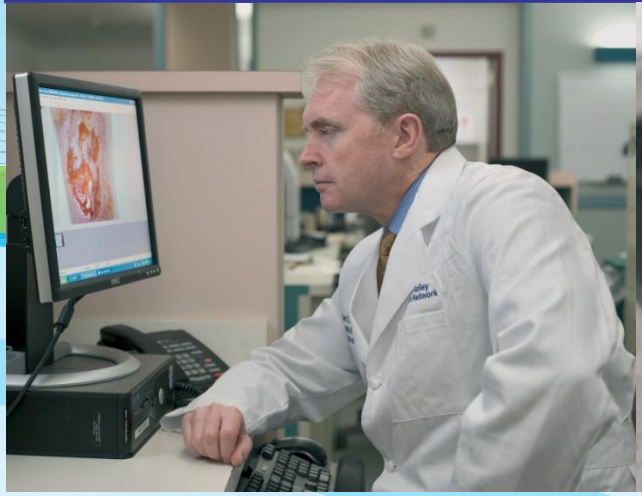

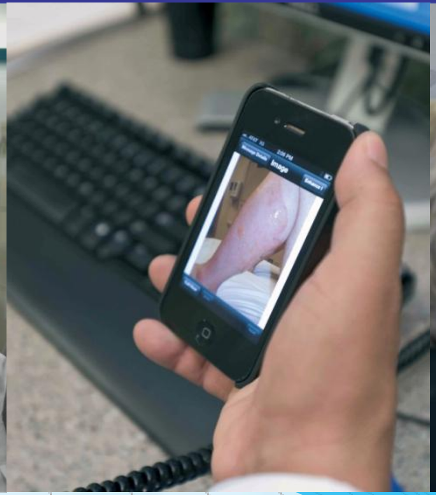

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Joseph Tracy, MS, BA

Vice President, Telehealth

Lehigh Valley Health Network, Allentown, PA

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Sir Oliver Lodge, F.R.S.
Dr. J. A. Fleming, F.R.S.
F. W. Dunmore and
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Lehigh Valley Hospital Teleburn

Instructions

1. Complete required fields
2. Use the **"Browse"** button to select the pictures you want to send
3. Hit the **"Submit"** button to send the pictures to LVHN
4. Upon successful transmission, call **610-402-BURN**

Facility	Hazleton
Patient Last Name	Test
Patient First Name	John
Patient Middle Initial	A
Birth Date	06/25/2004
Date of Injury	06/05/2009
Burn Type	CONTACT
Referring Physician	Wheary
Submitted by	Tracy

* **Fields in RED are required for submission**

Browse... * **Three files MAX** Submit

Files:
C:\Documents and Settings\b6610\My Documents\My Pictures\John Test Contact Burn.jpg Delete

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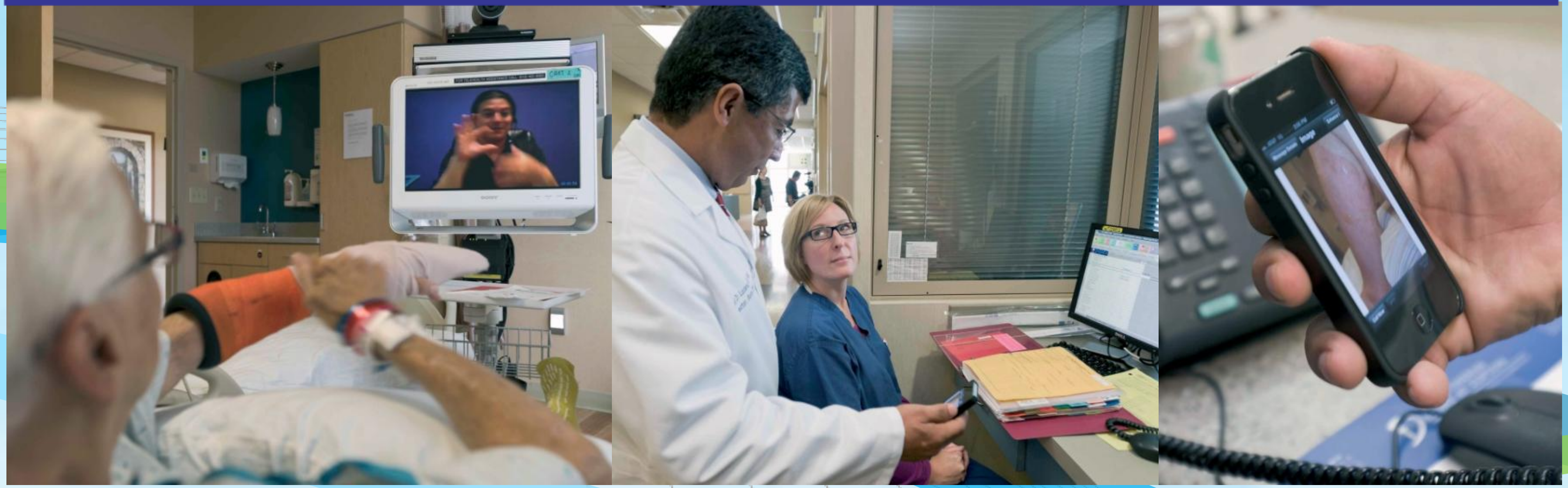
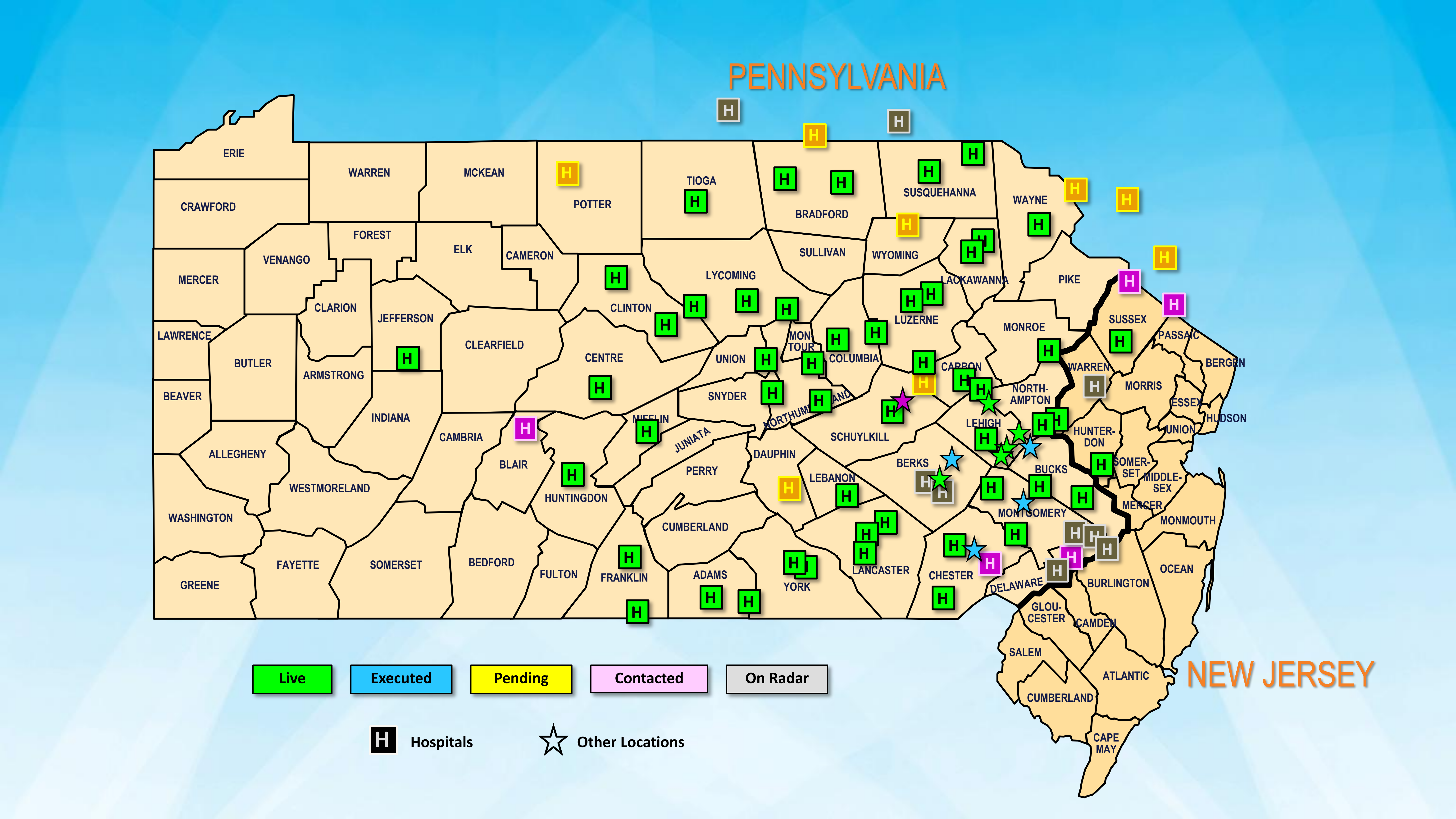


TeleBurn℠


PENNSYLVANIA
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LYCOMING
LUZERNE
MONROE
SUSSEX
PASSAIC
BERGEN
LAWRENCE
BUTLER
ARMSTRONG
CENTRE
UNION
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On Radar
H Hospitals
Other Locations

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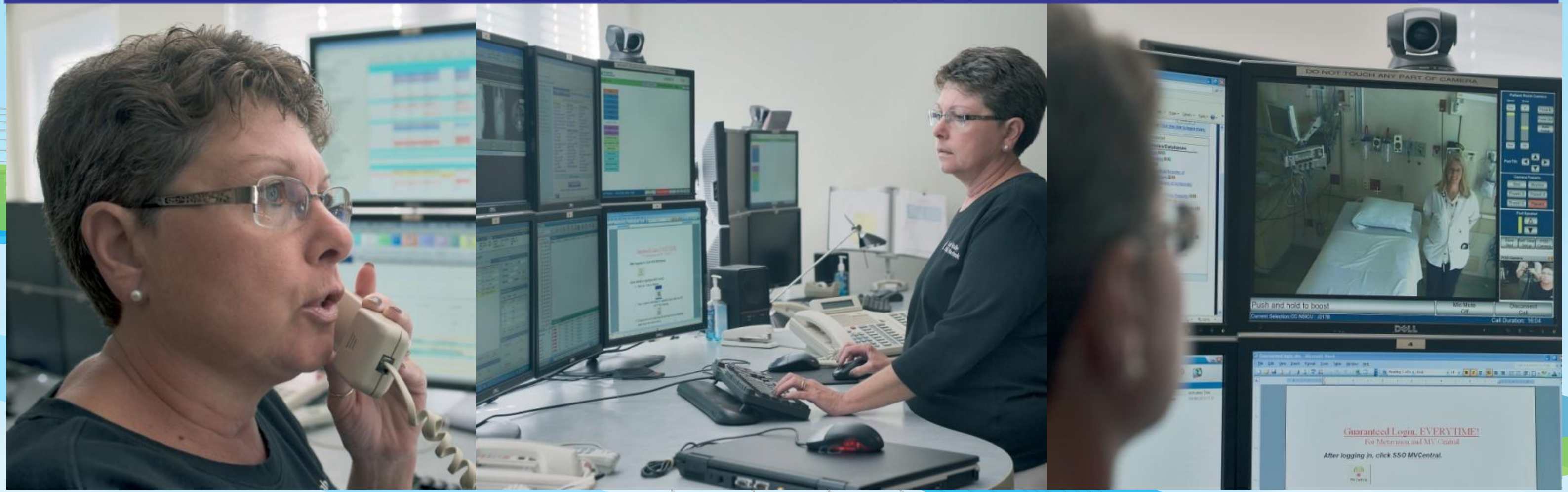

Advanced Intensive Care Unit

30% Reduction in Mortality


ORIGINAL INVESTIGATION

Association of Health Information Technology and Teleintensivist Coverage With Decreased Mortality and Ventilator Use in Critically Ill Patients

Matthew McCambridge, MD; Kari Jones, PhD; Hannah Paxton, RN, MPH; Kathy Baker, RN, MPH; Elliot J. Sussman, MD; Jeff Etchason, MD

Background: Little evidence exists to support implementing various health information technologies, such as telemedicine, in intensive care units.

Methods: A coordinated health information technology bundle (HITB) was implemented along with remote intensivist coverage (RIC) at a 727-bed academic community hospital. Critical care specialists provided bedside coverage during the day and RIC at night to achieve intensivist coverage 24 hours per day, 7 days per week. We evaluated the effect of HITB-RIC on mortality, ventilator and vasopressor use, and the intensive care unit length of stay. We compared our results with those achieved at baseline.

Results: A total of 954 control patients who received care for 16 months before the implementation of HITB-RIC and 959 study patients who received care for 10 months after the implementation were included in the analysis. Mortality for the control and intervention groups were 21.4% and 14.7%, respectively. In addition, the observed mortality for the intervention group was 75.8% (P<.001) of that predicted by the Acute Physiology and Chronic Health Evaluation IV hospital mortality equations, which was 29.5% lower relative to the control group. Regression results confirm that the hospital mortality of the intensive care unit patients was significantly lower after implementation of the intervention, controlling for predicted risk of mortality and do-not-resuscitate status. Overall, intervention patients also had significantly less (P=.001) use of mechanical ventilation, controlling for body-system diagnosis category and severity of illness.

Conclusion: The use of HITB-RIC was associated with significantly lower mortality and less ventilator use in critically ill patients.

Arch Intern Med. 2010;170(7):648-653

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648

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Lehigh Valley Health Network

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LVHN Telehealth

17,000+ patients cared for in 2012

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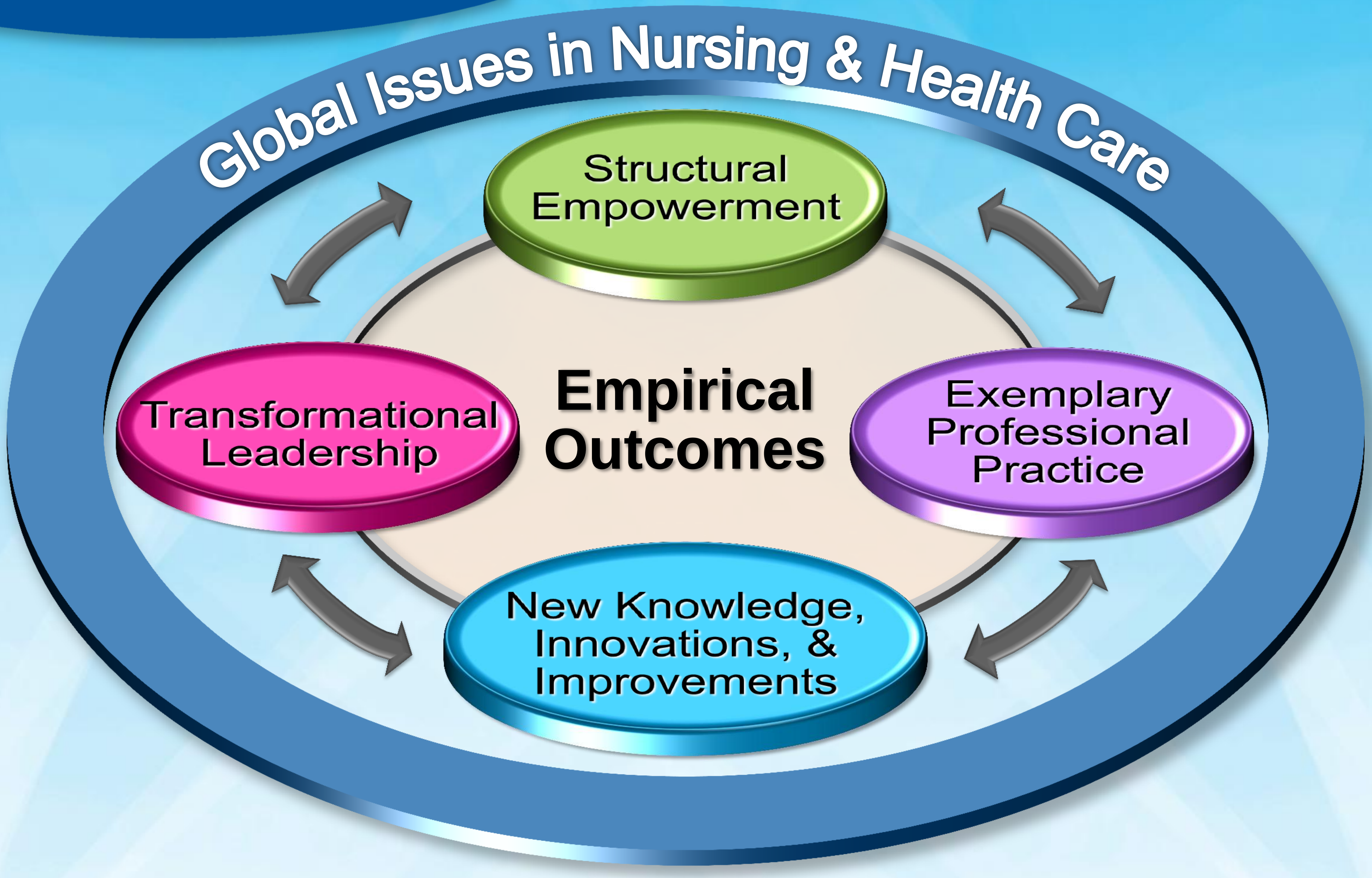
Telehealth: Benefits to Nursing

Magnet Model



Telehealth Outcomes

- Increased utilization volumes
- Enhanced process efficiencies and effectiveness
- Improved clinical outcomes
- Improved utilization of resources
- Reduced costs
- Enhanced access to care
- Increased patient satisfaction

Tele-ID Outcomes
N = 458 patients


PHOEBE MINISTRIES
SAMSUNG
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Transforming Patient Care through Telehealth

Step: 1 Involve a nurse!

Step: 2 Research the need

Step: 3 Explore the technologies

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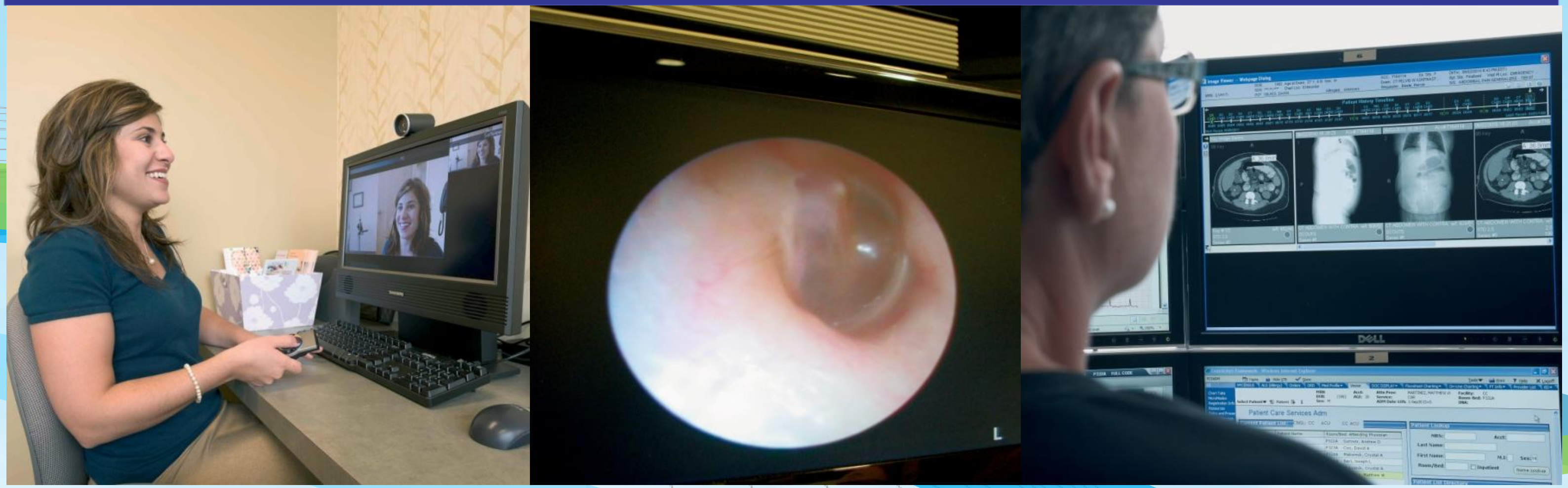

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For More Information: lvhn.org/telehealth